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**Exhibit R-2, RDT&E Budget Item Justification:** PB 2021 Navy **Date:** February 2020

<b>Appropriation/Budget Activity</b> 1319: <i>Research, Development, Test &amp; Evaluation, Navy / BA 5: System Development &amp; Demonstration (SDD)</i>	<b>R-1 Program Element (Number/Name)</b> PE 0604654N / JNT Service EOD
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COST (\$ in Millions)	Prior Years	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total	FY 2022	FY 2023	FY 2024	FY 2025	Cost To Complete	Total Cost
Total Program Element	314.621	6.829	8.237	8.383	-	8.383	8.542	8.712	8.886	9.064	Continuing	Continuing
1829: <i>Expl Ord Disp Proc</i>	314.621	6.829	8.237	8.383	-	8.383	8.542	8.712	8.886	9.064	Continuing	Continuing

**A. Mission Description and Budget Item Justification**

This program, aligned with the National Defense Strategy, provides Joint Service Explosive Ordnance Disposal (EOD) and the supported Combatant Commanders with information superiority by providing for the development of Unexploded Explosive Ordnance (UXO), Improvised Explosive Devices (IED), Weapons of Mass Destruction (WMD), and weapons systems Technical Manuals (TMs). TMs, which provide key identification features, hazardous materials, and safety information, are paramount to the success of EOD Mission to detect, locate, access, identify, Render-Safe/Neutralize, and disposal or recovery of both foreign and domestic explosive threats that pose a threat to military operations, installations, personnel, and materials.

In addition, EOD Render-Safe Procedures (RSP) of foreign ordnance and other explosive hazards must be developed as soon as possible after gaining knowledge of its existence. This effort requires collection, exploitation, and analysis of the foreign ordnance prior to the development of EOD procedures.

The program also provides for the development and evaluation of prototypical EOD Tier Two solutions sets for threats identified in the National Response Framework. This effort provides resources essential to the Foreign Threat Mine Acquisition/Exploitation (FTMA/E) program that includes acquisition, inert certification, intelligence and operational exploitation, analysis, procedure development, and disposition of the highest priority foreign threat naval mines.

As defined in DOD Directive 5160.62, assigns the Secretary of the Navy (SECNAV) the responsibility of Executive Agent for Explosive Ordnance Disposal (EOD) Technology and Training (T&T). The Executive Agent for EOD T&T is to provide for the preparation, technical development, validation, Joint Service approval, and distribution of all EOD procedures and countermeasures to include; publications, manuals, bulletins, texts, and graphic aids. This program is a non-acquisition program (without traditional acquisition milestones) with on-going, continuous delivery of urgent and periodic documented procedures and publications for mines, ordnance items, weapons systems, Improvised Explosive Devices, Weapons of Mass Destruction, and related explosive hazards.

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<b>B. Program Change Summary (\$ in Millions)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
Previous President's Budget	7.107	8.237	8.371	-	8.371
Current President's Budget	6.829	8.237	8.383	-	8.383
Total Adjustments	-0.278	0.000	0.012	-	0.012
• Congressional General Reductions	-	-			
• Congressional Directed Reductions	-	-			
• Congressional Rescissions	-	-			
• Congressional Adds	-	-			
• Congressional Directed Transfers	-	-			
• Reprogrammings	-	-			
• SBIR/STTR Transfer	-0.278	0.000			
• Rate/Misc Adjustments	0.000	0.000	0.012	-	0.012

**Change Summary Explanation**

FY 2019: SBIR -\$0.278  
FY 2020: N/A  
FY 2021: \$12K Other Rate/Misc Adjustments (MISC)

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<b>Exhibit R-2A, RDT&amp;E Project Justification:</b> PB 2021 Navy										<b>Date:</b> February 2020		
<b>Appropriation/Budget Activity</b> 1319 / 5					<b>R-1 Program Element (Number/Name)</b> PE 0604654N / JNT Service EOD				<b>Project (Number/Name)</b> 1829 / Expl Ord Disp Proc			
<b>COST (\$ in Millions)</b>	<b>Prior Years</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>	<b>FY 2022</b>	<b>FY 2023</b>	<b>FY 2024</b>	<b>FY 2025</b>	<b>Cost To Complete</b>	<b>Total Cost</b>
1829: Expl Ord Disp Proc	314.621	6.829	8.237	8.383	-	8.383	8.542	8.712	8.886	9.064	Continuing	Continuing
Quantity of RDT&E Articles		-	-	-	-	-	-	-	-	-		

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**B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)**

	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
<b>Title:</b> Render-Safe Procedures Development	2.796	3.806	3.917	0.000	3.917
<b>Articles:</b>	-	-	-	-	-
<b>FY 2020 Plans:</b> Develop specific Explosive Ordnance Disposal (EOD) Technical Manuals which include the key identification features, functionality, hazardous components, safeties and warnings, Render Safe and Disposal procedures,					

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	<b>FY 2019</b>	<b>FY 2020</b>	<b>FY 2021 Base</b>	<b>FY 2021 OCO</b>	<b>FY 2021 Total</b>
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for U.S. and foreign ordnance items. Technical Manual development is accomplished through collection, exploitation, analysis, and reverse engineering through the analysis, exploitation, and reverse engineering of these ordnance items.

**FY 2021 Base Plans:**  
Per the National Defense Strategy, our advantage is addressing the Great Power Competitions by specifically gaining information superiority, Render Safe Procedures Development will focus on Developing New Procedures and updating existing procedures for ordnance, weapons, and other explosive threats developed, fielded, and employed by our adversaries.

**FY 2021 OCO Plans:**  
N/A

**FY 2020 to FY 2021 Increase/Decrease Statement:**  
Increase from FY2020 to FY2021 is to increase the development of Technical Manuals with no coverage.

<b>Title:</b> Improvised Explosive Device (IED), Weapons of Mass Destruction (WM) Countermeasures	1.839	1.927	1.945	0.000	1.945
<b>Articles:</b>	-	-	-	-	-

**FY 2020 Plans:**  
Increase to address solution and informational products enabling the desensitization of explosives and explosive procedures. This includes the development, testing, and validation of materials and solutions to reduce sensitivity of primary and Homemade explosives.

**FY 2021 Base Plans:**  
Aligning with National Defense Strategy, this Program Element provides for the development of materials and solutions designed to reduce sensitivity of primary and Homemade explosives. The result of this effort greatly reduces the risk to personal safety of Joint Service EOD technicians encountering Improvised Explosive Devices (IED) and Weapons of Mass Destruction (WMD) where the explosive filler is extremely sensitive while providing the opportunity to collect evidence ultimately leading to the capture of adversaries and non-state actors. Additionally, new Technical Manuals with tested and validated Tactics, Techniques, and Procedures for the employment of these solutions in operational environments will be developed and fielded.

**FY 2021 OCO Plans:**  
N/A

**FY 2020 to FY 2021 Increase/Decrease Statement:**

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<b>B. Accomplishments/Planned Programs (\$ in Millions, Article Quantities in Each)</b>	FY 2019	FY 2020	FY 2021 Base	FY 2021 OCO	FY 2021 Total
No significant change.					
<b>Title:</b> Foreign Mine Acquisition  <div style="text-align: right;"><b>Articles:</b></div>	2.194	2.504	2.521	0.000	2.521
<b>FY 2020 Plans:</b> Acquire foreign mines and related materials as prioritized by Foreign Mine Plan Group(FMPG) to support component exploitation resulting in development of EOD 60 series Technical Manual and development of Naval Surface and submarine warfare countermeasures.	-	-	-	-	-
<b>FY 2021 Base Plans:</b> Acquire foreign mines and related materials as prioritized by Foreign Mine Plan Group(FMPG) to support component exploitation resulting in development of EOD 60 series Technical Manual and development of Naval Surface and submarine warfare countermeasures.					
<b>FY 2021 OCO Plans:</b> N/A					
<b>FY 2020 to FY 2021 Increase/Decrease Statement:</b> No significant change.					
<b>Accomplishments/Planned Programs Subtotals</b>	6.829	8.237	8.383	0.000	8.383

**C. Other Program Funding Summary (\$ in Millions)**

N/A

**Remarks**

**D. Acquisition Strategy**

This is a non-acquisition program.



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**Exhibit R-4, RDT&E Schedule Profile: PB 2021 Navy** **Date:** February 2020

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FY 2019				FY 2020				FY 2021				FY 2022				FY 2023				FY 2024				FY 2025			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4

<b>JT Service EOD</b>	
System Development: Ordnance and Weapons Systems Procedures Development	
System Development: Improvised Explosive Device (IED), Weapons of Mass Destruction (WMD) Countermeasures	

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**Exhibit R-4A, RDT&E Schedule Details:** PB 2021 Navy **Date:** February 2020

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Schedule Details

Events by Sub Project	Start		End	
	Quarter	Year	Quarter	Year
<b>JT Service EOD</b>				
System Development: Ordnance and Weapons Systems Procedures Development	1	2019	4	2025
System Development: Improvised Explosive Device (IED), Weapons of Mass Destruction (WMD) Countermeasures	1	2019	4	2025